

日本語での仕事 (授業なし)

Work in fluent Japanese (without any lesson)

Auto-Translate



ELT it is a-changing

Evan Frendo

www.e4b.de



IATEFL Online

Join the live coverage from the conference
for English language teaching professionals

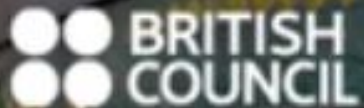


Friday 5 April 2019, 13.05 - 14.15 UK time

Future directions in ELT: where are we headed? (Interactive)

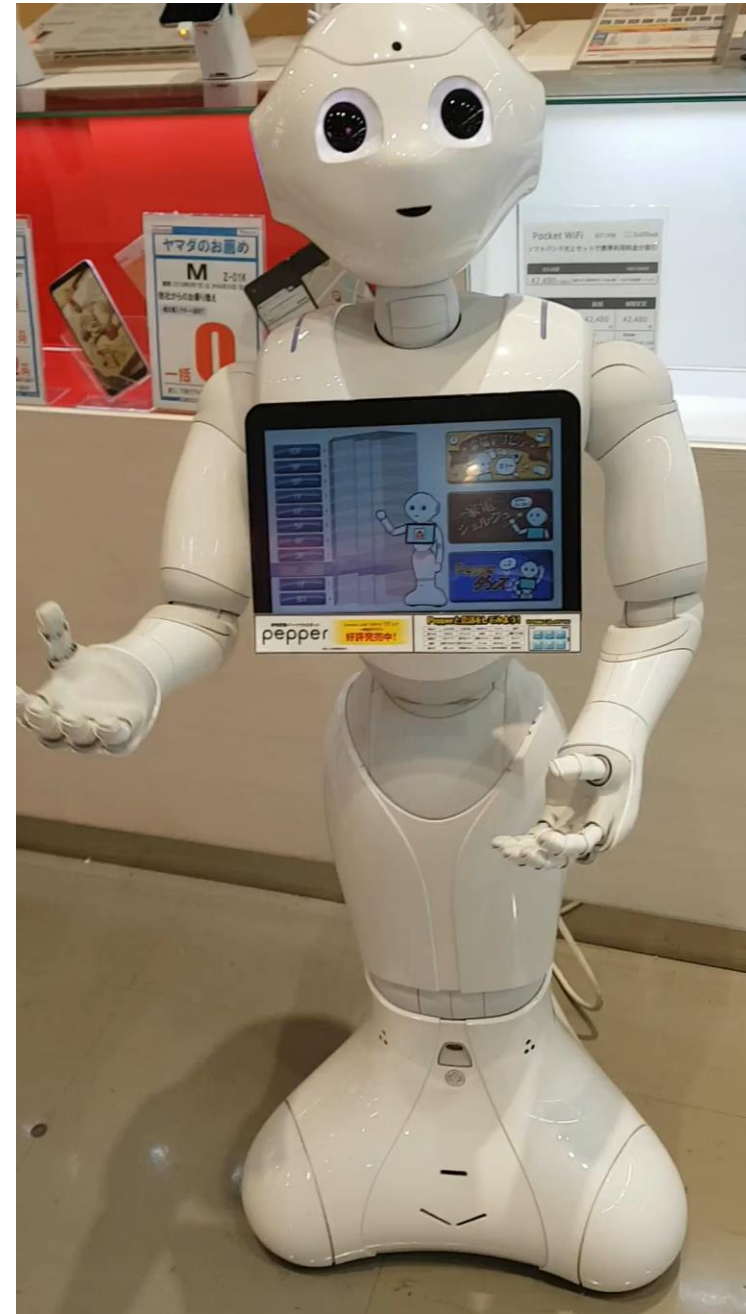
**Katherine Billsborough, Evan Frendo, Amol Padwad and
Mercedes Viola**

www.teachingenglish.org.uk/events/IATEFL-Online/2019
IATEFLOnline @IATEFLOnline #IATEFL2019



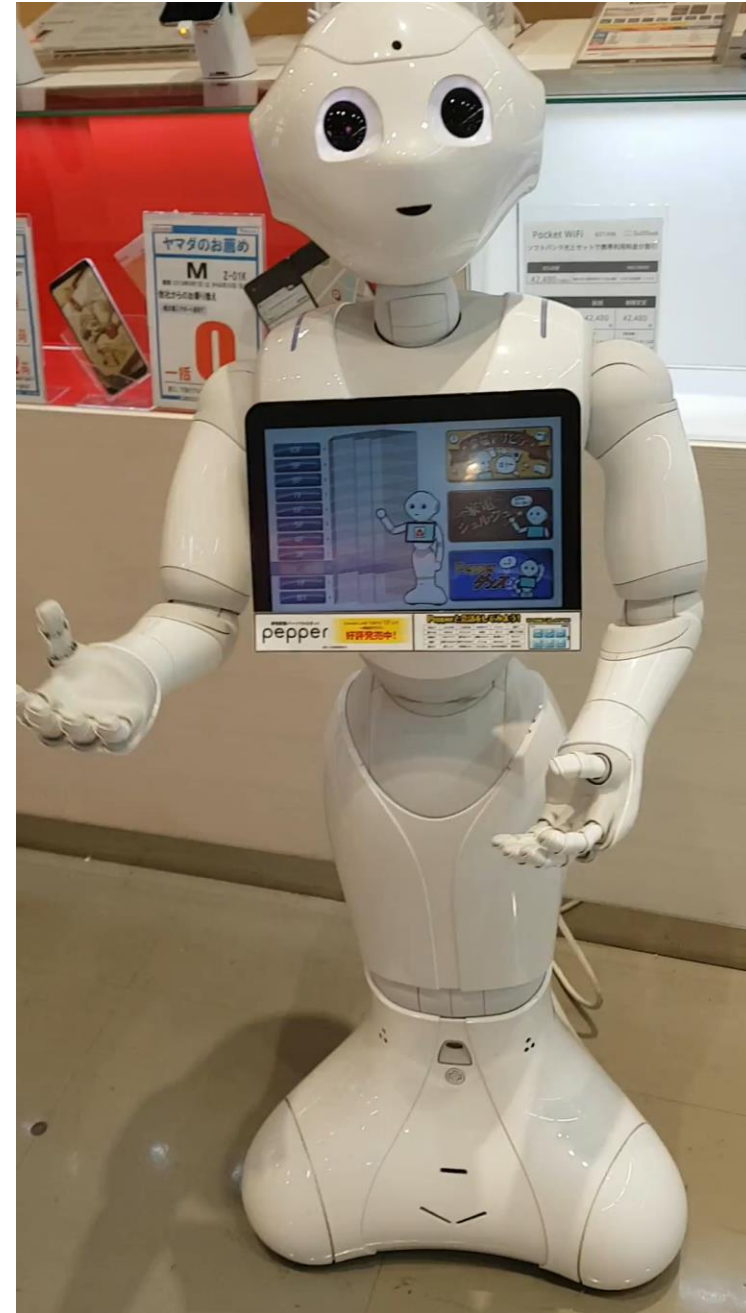
Service encounters

- Retail, finance, healthcare, government, tourism, education and research
- “Pepper can speak up to 15 languages and provide translation via Cloud services”



Teaching assistant

- Information
- Routine tasks
- Testing
- Patient?



Technical communication

- Routine
- Non-routine
- Specialized language (with non-standard grammar)





Challenge Number One

The world of work is
changing – routine
communication tasks are
being taken over by
machines

What has shipping got to do with teaching English?

- Currently around 50,000 vessels at sea
- Over one million seafarers
- Main communication at sea is English

You see where I am going with this?



Challenge Number Two

Specific industries are
seeing a reduced
requirement for English
training

Spoken communication



- Lingua franca
- Getting the job done

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First Person Singular

Technological disruption in foreign language teaching: The rise of simultaneous machine translation

Scott A. Crossley Department of Applied Linguistics/ESL, Georgia State University,
USA
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Introduction

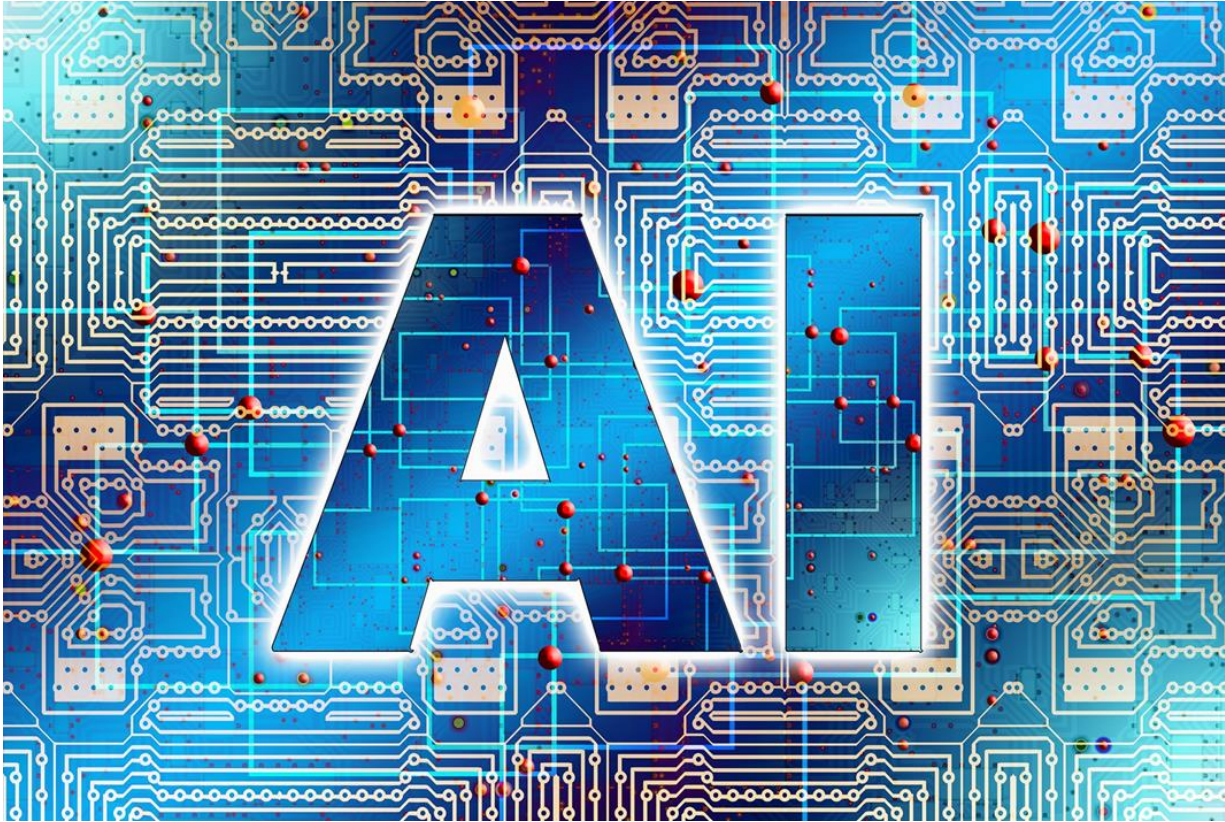
The fear of technology replacing jobs can be traced back to Aristotle, who, before great technological advances existed, ventured that machines may one day end the need for human labor (Campa [2014](#)). In the current era, there is overwhelming evidence of technological unemployment. This evidence comes in the form of jobs that were once common, but have largely been replaced by technology such as switchboard operators, travel agents, booth



Challenge Number Three

People may be willing to use translation devices in future, rather than spend several years learning a language

What is artificial intelligence?



<https://pixabay.com/illustrations/artificial-intelligence-brain-think-4111582/>

- Narrow (weak) intelligence
(e.g. chess computer, self-driving car, search engines, email spam filter, translation)
- General (strong) intelligence
(human-level intelligence)
- Super intelligence

MACHINE LEARNING

Learning without being explicitly
programmed

<https://pixabay.com/vectors/a-i-ai-anatomy-2729781/>

Supervised learning

Training data - labels



Unsupervised learning

Pattern recognition



Huskies and wolves



<https://pixabay.com/photos/husky-dog-dog-breed-animal-3380548/>



<https://pixabay.com/photos/wolf-predator-hunter-canis-lupus-635063/>

CV matching

BUSINESS NEWS OCTOBER 10, 2018 / 4:12 AM / 9 MONTHS AGO

Amazon scraps secret AI recruiting tool that showed bias against women

<https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G>

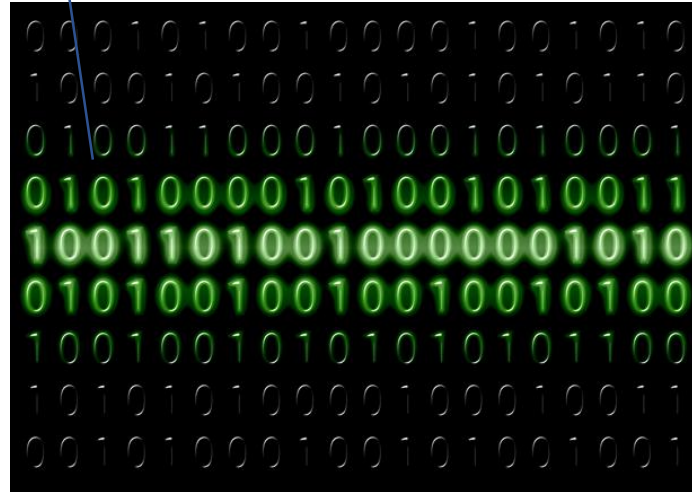
Aeroplanes – you need three things to fly them!

The pilot is there
to feed the dog.



<https://pixabay.com/photos/pilot-aviator-aircraft-aviation-936250/>

The computer
is there to fly
the plane.



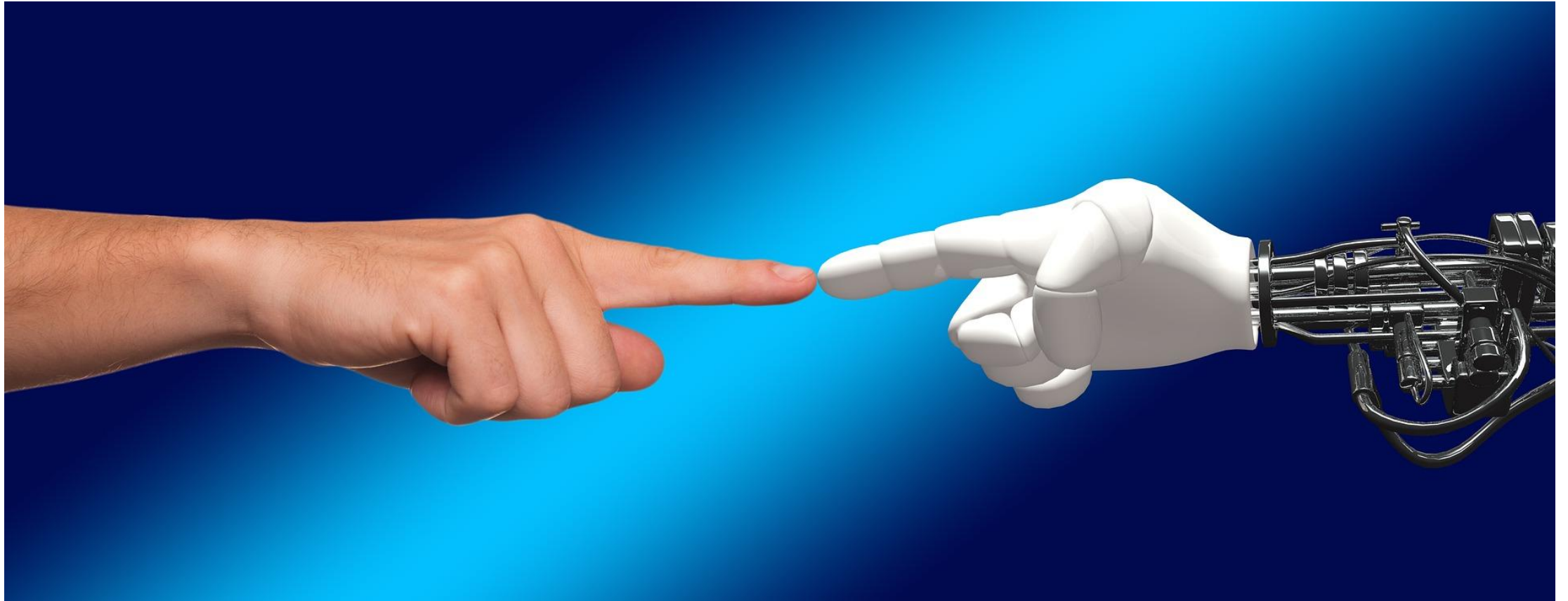
<https://pixabay.com/illustrations/binary-code-binary-binary-system-475664/>

The dog is there
to bite the pilot if
he tries to touch
the computer.

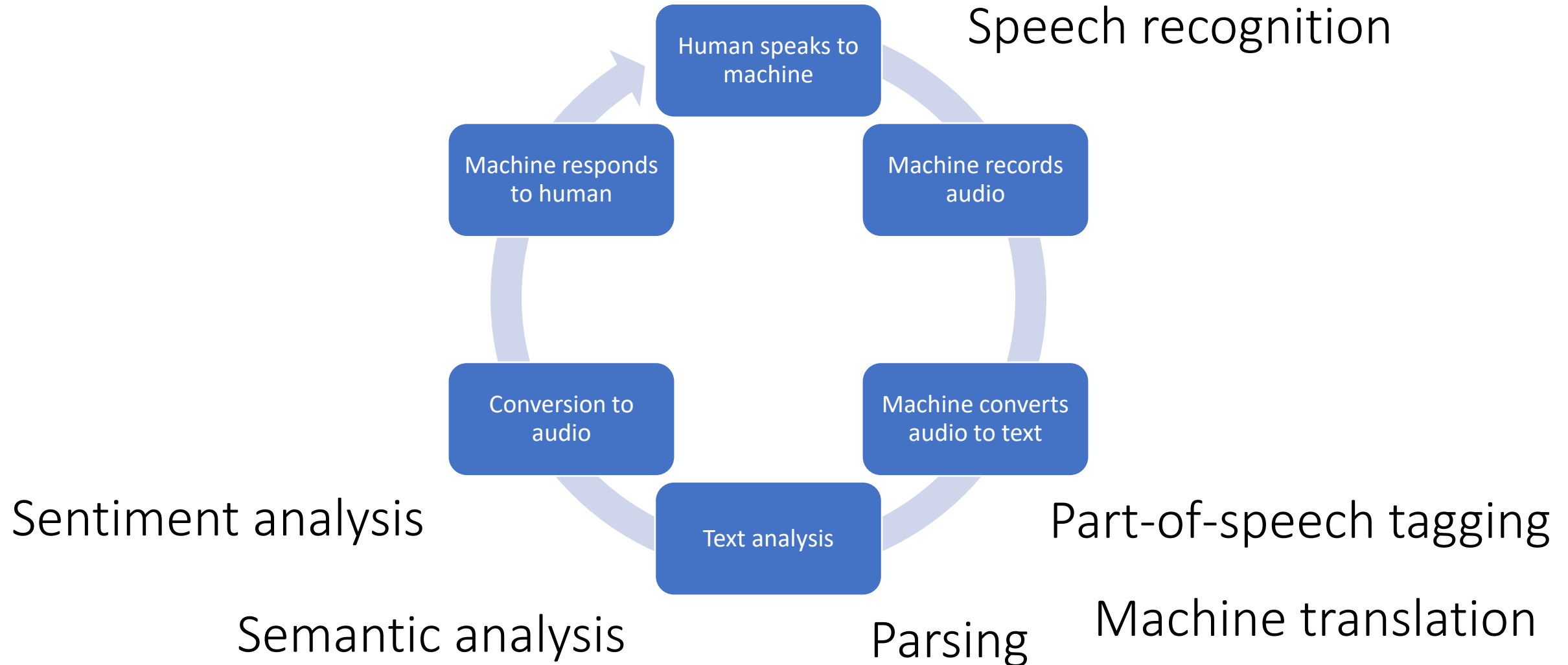


<https://pixabay.com/photos/animal-breed-canine-dog-look-2178696/>

What is natural language processing?



NLP – interactions between computers and humans



How are people learning languages?



<https://pixabay.com/photos/baby-boy-child-childhood-computer-84627/>

Online learning



Virtual reality and augmented reality



Autonomous learning

- Learner takes on responsibility for learning
- Learner makes decisions about what to learn and when and how



Apps


duolingo

Duolingo: Learn Languages Free

Editors' Choice

Duolingo Education Education

★ ★ ★ ★ ★ 7,746,120

PEGI 3 Family Friendly

Contains Ads · Offers in-app purchases

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Scientifically proven way to master a language



Fun, bite-size lessons



Learn 30+ languages for free



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Learn Spanish, French, German, Italian, Russian, Portuguese, Turkish, Dutch, Irish, Danish, Swedish, Ukrainian, Esperanto, Polish, Greek, Hungarian, Norwegian, Hebrew, Welsh and English.

With more than 300 million learners, Duolingo has the world's largest collection of language-learning data at its fingertips. This allows us to build unique systems and uncover new insights about the nature of language and learning. We are committed to sharing our data and findings with the broader research community.

<https://ai.duolingo.com/>

Second Language Acquisition Modeling

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Abstract

We present the task of *second language acquisition (SLA) modeling*. Given a history of errors made by learners of a second language, the task is to predict errors that they are likely to make at arbitrary points in the future. We describe a large corpus of more than 7M words produced by more than 6k learners of English, Spanish, and French using Duolingo, a popular online language-learning app. Then we report

Then we report on the results of a “shared task” challenge organized by the authors using this SLA modeling corpus, which brought together 15 research teams. Our goal for this work is three-fold: (1) to synthesize years of research in cognitive science, linguistics, and machine learning, (2) to facilitate cross-dialog among these disciplines through a common large-scale empirical task, and in so doing (3) to shed light on the most effective approaches to SLA modeling.

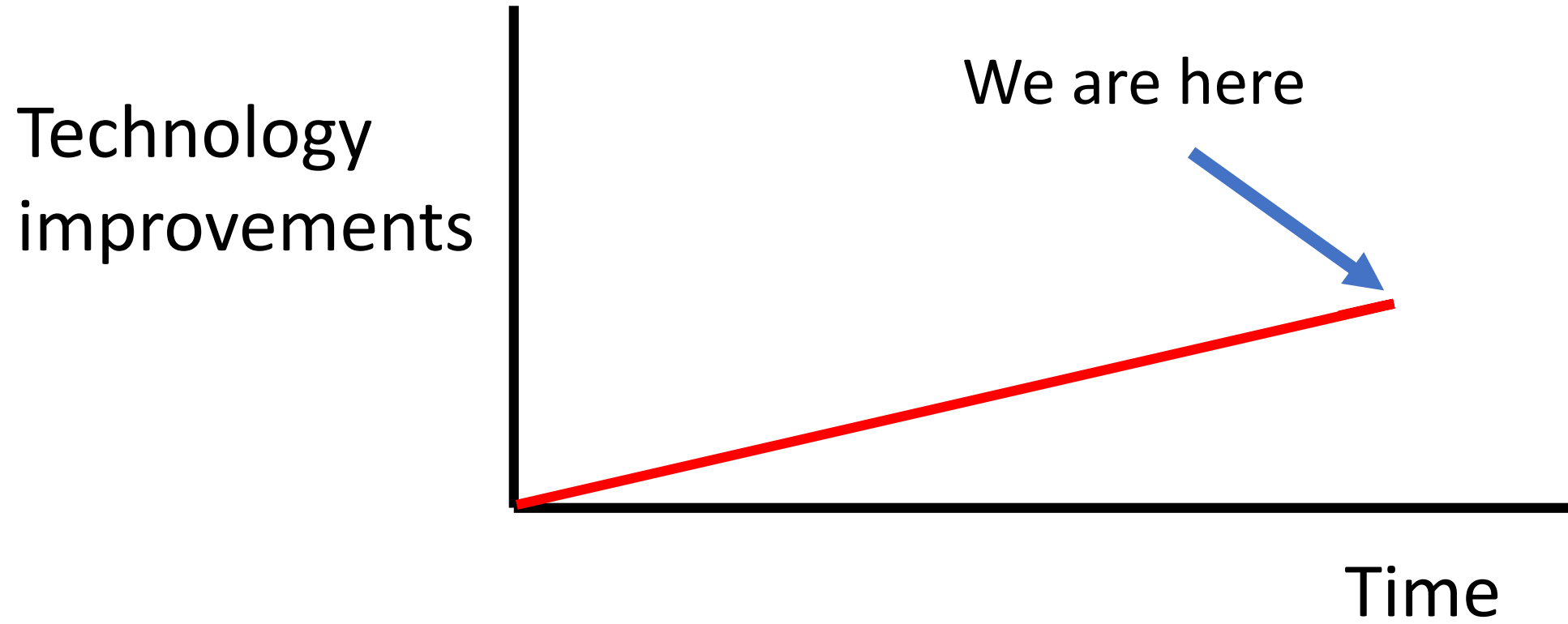
2 Shared Task Description

Our learner trace data comes from Duolingo: a free, award-winning, online language-learning platform. Since launching in 2012, more than 200 million learners worldwide have enrolled in

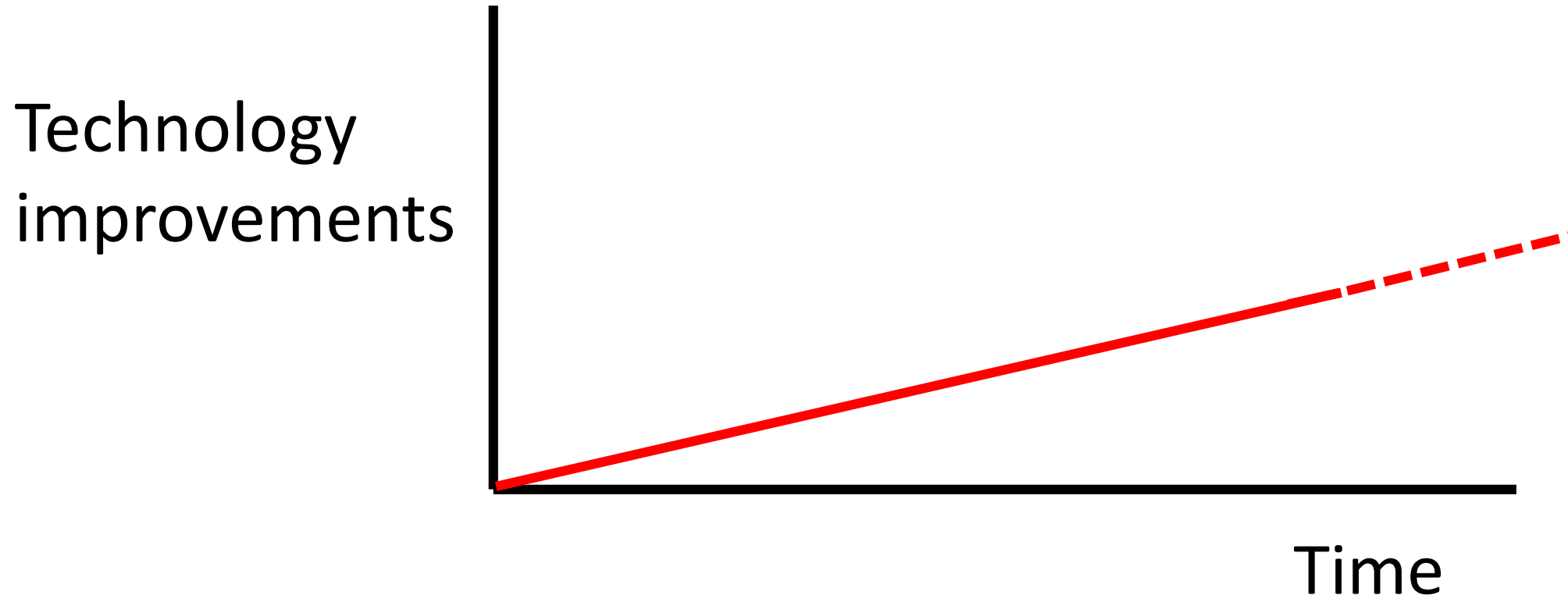
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Do we need to panic?

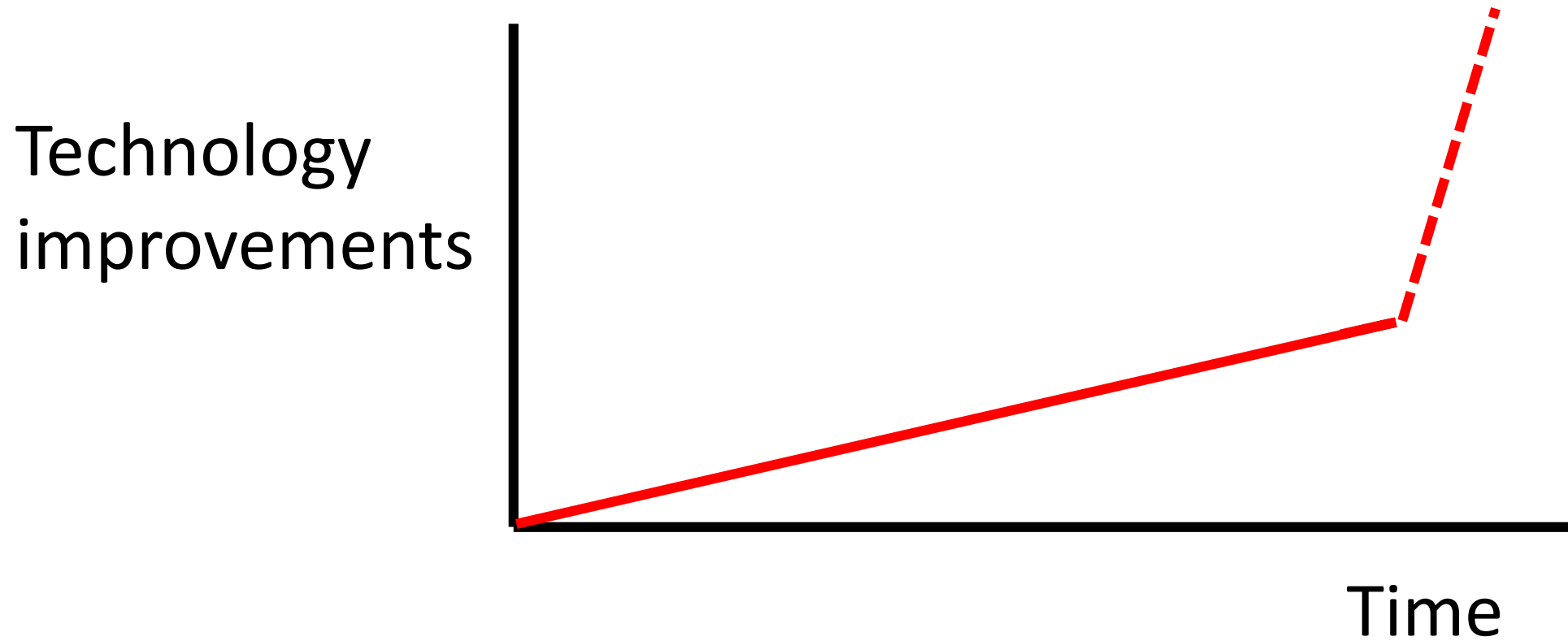




Is this what is going to happen?



Or is this closer?

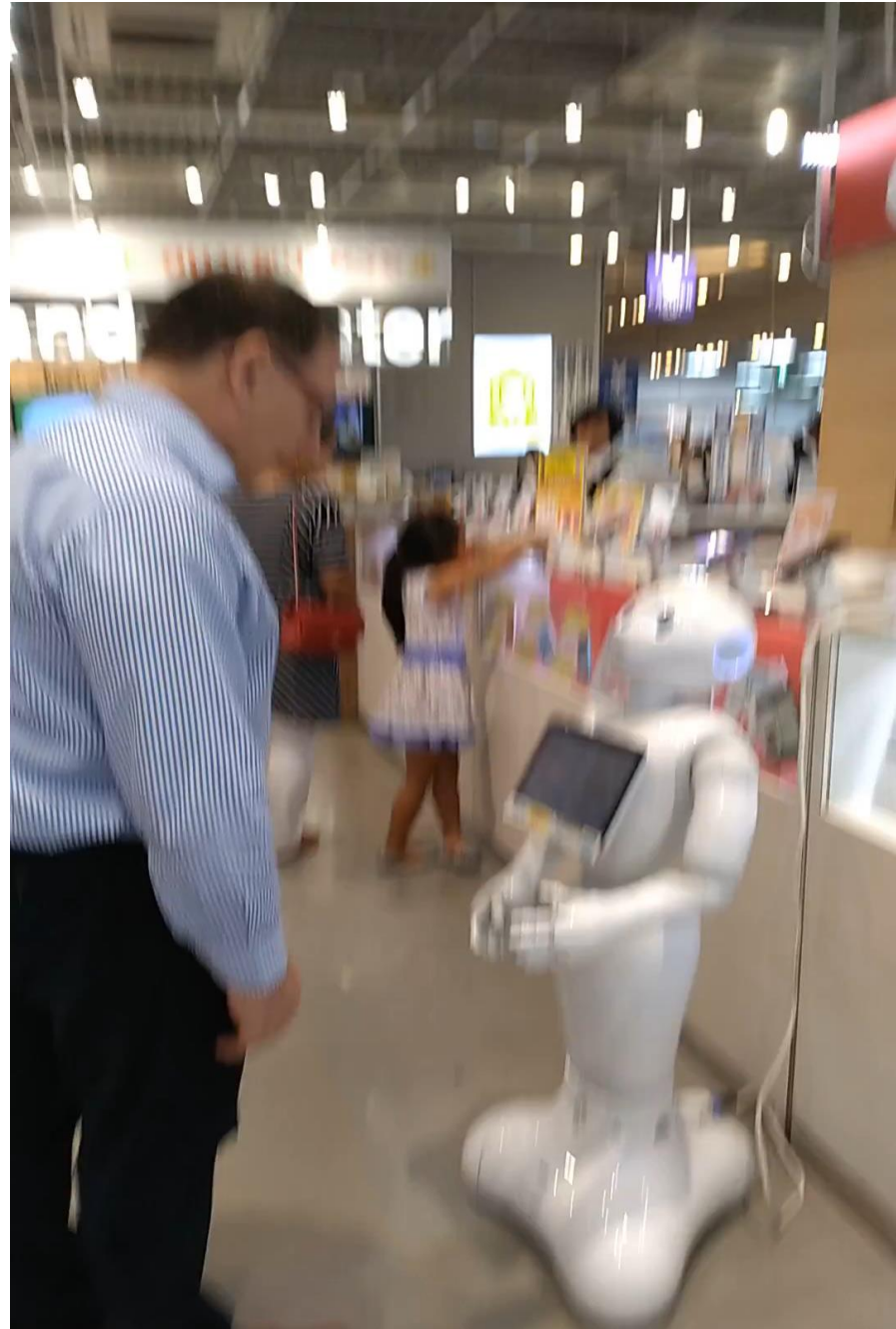




Challenge Number Four

We don't know how fast
this sort of technology is
improving

Back to Pepper



Do we need to panic?

- New focus – need to help learners use the technology
- Communication soft skills (leadership talk, impression management, team work ...)



So many opportunities!







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